

## SUMMARY OF THE INVENTION

### BOTANICAL CLASSIFICATION

*Rosa hybrida*

### VARIETY DENOMINATION

'POULhi020'

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The present discovery constitutes a new and distinct variety of a miniature pot rose plant which was discovered in a cultivated area. The mutation resulted from a plant named 'POULhi008 ', a miniature pot rose hybridized by the same inventors. 'POULhi008' is described and illustrated in U.S. Plant Patent Application No. 10/267,939 , and dated October 8, 2002. The new rose variety resulted from a naturally occurring mutation of unknown causation on a branch of 'POULhi008'.

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The rose plant of the present discovery has a unique combination of characteristics which are outstanding in the new variety and which distinguish it from the original rose 'POULhi008' as well as all other varieties which we are aware of. For example, the new variety has:

1. Uniform and abundant light apricot flowers;
2. Vigorous and compact growth;
3. Year-round flowering under glasshouse conditions;
4. Suitability for production from softwood cuttings

in pots;

5. Durable flowers and foliage which make a variety suitable for distribution in the floral industry.

5           This combination of qualities is not present in previously available commercial cultivars of this type and distinguish 'POULhi020' from all other varieties of which we are aware.

          The resulting mutation was selected and evaluations were conducted on the resulting rose plants in a controlled  
10       environment.

          Asexual reproduction of 'POULhi020' by cuttings and traditional budding was first done by L. Pernille and Mogens N. Olesen in their nursery in Fredensborg, Denmark in 1998. This initial and other subsequent propagations conducted in controlled  
15       environments have demonstrated that the characteristics of 'POULhi020' are stable and reproduced true to type in successive generations of asexual reproduction.

#### 20                   BRIEF DESCRIPTION OF THE DRAWING

          The accompanying color illustration shows as true as is reasonably possible to obtain in color photographs of this type, the typical characteristics of the buds, flowers, leaves, and

stems of 'POULhi020'. Specifically illustrated in the drawing:

Fig 1.1; Open flower, and stem showing attachment of  
leaves, peduncle, and side view of open  
flower;

Fig 1.2; Flower bud at various stages of opening;

Fig 1.3; Sepals, receptacle, and pedicel;

Fig 1.4; Flower petals, detached;

Fig 1.5; Leaves;

Fig 1.6; Bare stem.

#### DETAILED DESCRIPTION OF THE VARIETY

The following is a description of 'POULhi020', as observed in  
its growth in glasshouses in Fredensborg, Denmark. Observed  
plants are 3 months of age, and were cultivated in 12 cm pots.  
Color references are made using the Royal Horticultural Society  
(London, England) Colour Chart, 1995, except where common terms of  
color are used.

For a comparison, several physical characteristics of the  
rose variety 'POULavon', a rose variety from the same inventors  
described and illustrated in U.S. Plant Patent No. 10,082 issued  
on 28 October 1997, are compared to 'POULhi020' in Chart 1.

CHART 1

	'POULhi020'	'POULavon'
Petal Count	61	30 to 35
Flower Color: General Tonality	White Group 155 B at the circumference to Orange Group 27 B towards the center.	Red Group 36D
Lastingness	more than 28 days	7 to 8 days

FLOWER AND FLOWER BUD

Blooming habit: Continuous.

Flower bud:

Size: Upon opening, 12 mm in diameter by 20 mm  
in length from base of receptacle to end  
of bud.

Bud form: Globular.

Bud color: As sepals unfold, petals are Yellow-  
White Group 158D.

Sepals:

Upper Surface:

Color: Yellow-Green Group 147A.

Surface: Moderately pubescent.

Lower Surface:

Color: Yellow-Green Group 146A.

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Shape:

Sepal apex is cirrhose. Base is flat at union with receptacle.

Margins: Medium foliaceous appendages on three of the five sepals. Stipitate glands observed in medium quantity.

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Size: 37 mm (l) x 7 mm (w).

Receptacle:

Surface Texture: Smooth.

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Shape: Funnel shaped.

Size: 8 mm (h) x 10 mm (w).

Color: Yellow-Green Group 144B.

Peduncle:

Surface: Somewhat smooth. Stipitate glands observed in medium quantity.

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Length: 25 mm average length.

Color: Yellow-Green Group 144B.

Strength: Strong.

Borne: Singularly.

**Flower bloom:**

Fragrance: Moderate rose scent.

Duration: The blooms have a duration on the plant  
of approximately 28 days. Afterwards  
petals fall cleanly away from plant.

Size: Medium for a 12 cm pot rose. Average  
flower diameter is 65 mm when open.  
Average flower depth is 25 mm.

Form: General shape is characterized as an  
open cup with the outer petals slightly  
overlapping.

Shape of flower when viewed from the side:

Upon opening, upper part: Flattened Convex.

Upon opening, lower part: Flattened Convex.

Open flower, upper part: Flattened Concave.

Open flower, lower part: Flattened Concave.

Petalage: 61 petals under normal conditions with  
21 petaloids.

**Color:**

Upon opening, petals:

Outermost petals:

Outer Side: White Group 155B to Yellow-  
White Group 158D.

Inner Side: White Group 155B to Yellow-  
White Group 158D.

5 Innermost petals:

Outer Side: Yellow-White Group 158D to  
Orange Group 27D.

Inner Side: Yellow-White Group 158D to  
Orange Group 27D.

10 Upon opening, basal petal spots:

Outermost petals:

Outer Side: Yellow-Green Group 150D.

Inner Side: Yellow-Green Group 150D

Innermost petals:

15 Outer Side: Yellow Group 11D.

Inner Side: Yellow Group 11D to 12D.

After opening, petals:

Outermost petals:

Outer Side: Yellow-White Group 158D to  
20 White Group 155B. Occasional  
intonations of Red-Purple  
Group 68A.

Inner Side: White Group 155B.

Innermost petals:

Outer Side: Yellow-White Group 158D to  
Orange Group 27D. Vertical  
streaks of Red-Purple Group  
73A.

5 Inner Side: Yellow-White Group 158D to  
Orange Group 27D.

After opening, basal petal spots:

Outermost petals:

10 Outer Side: Yellow-Green Group 150D to  
Green-White Group 157D.

Inner Side: Yellow-Green Group 150D to  
Green-White Group 157D.

Innermost petals:

15 Outer Side: Yellow-Green Group 150D.

Inner Side: Yellow-Green Group 150D.

**General Tonality:** White Group 155B at the  
circumference. Orange Group  
27B towards the center.

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**Petals:**

Petal Reflex: Outer petals reflex slightly.

Petal Margin: Entire. Weak undulations of  
margin.



Shape: Generally round.  
 Base shape varies from round to acute. Apex shape is round.

Size: 30 mm (l) x 30 mm (w).

5 Thickness: Average.

Arrangement: Not formal.

**Petaloids:**

Quantity: 20 to 30.

Size: 11 mm (l) x 9 mm (w).

10 Shape: Irregular, elliptical and oval with elongate acute base.

Color:

Upper Surface: Orange Group 27D.

Lower Surface: Orange Group 27D to Yellow-White

15 Group 158A.

**Reproductive Organs:**

**Pistils:**

Length: 5 mm long.

Quantity: 37 (actual count).

20 Pollen: None observed.

**Anthers:**

Color: Greyed-Orange Group 163B.

Quantity: 43 (actual count).

**Filaments:**

Color: Yellow-Green Group 150D to Yellow  
Group 4D.

Length: 6 mm.

Stigmas: Inferior relative to the length of the filaments and height of the anthers.

Color: Yellow-Green Group 150D.

Styles:

Color: Yellow-Green Group 150D.

Seed formation:        No hips observed.

# PLANT

**Plant growth:** Vigorous and compact. When grown as a 12 cm pot plant, the average height of the plant itself is 23 cm and the average width is 14 cm.

**Stems :**

Color:

Young wood: Yellow-Green Group 144A.

Older wood: Yellow-Green Group 144A.

Internodal distance: 20 mm (average).

Length of stems: 15 cm from flower to first branch.  
Stem diameter is 2.5 mm.

Surface Texture:

Young wood: Smooth.

Older wood: Smooth.

Thorns:

5 Incidence: 0 mm per 10 cm of stem.

**Plant foliage:** Normal number of leaflets on normal  
leaves in middle of the stem: 5  
leaflets.

Compound Leaf size: 98 mm (l) x 80 mm (w)

10 Quantity: 5 leaves per 10 cm of stem.

Color:

Mature foliage:

Upper Leaf Surface: Green Group 137A.

Lower Leaf Surface: Yellow-Green Group 147C.

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**Plant leaves and leaflets:**

Stipules:

Size: 6 mm in length.

Margins: Finely serrated with medium  
20 quantity of stipitate glands.

Petiole:

Length: 15 mm.

Color: Yellow-Green Group 144B.

Observations: Prickles located on the underside

of the petiole. Stipitate glands  
observed.

Rachis:

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Size: 31 mm.

Color: Yellow-Green Group 144B.

Underneath: Small prickles and medium quantity  
of stipitate glands observed.

Leaflet:

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Size: 50 mm (l) x 31 mm (w).

Edge: Serrated.

General Shape: Elliptical.

Apex Shape: Acute.

Base Shape: Round.

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Texture: Smooth.

Arrangement: Odd pinnate.

Venation: Reticulate.

Leaf Gloss: Moderately glossy.

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**Disease resistance:**

Average resistance to mildew, black spot, and *Botrytis* under  
normal glasshouse growing conditions in Fredensborg, Denmark.